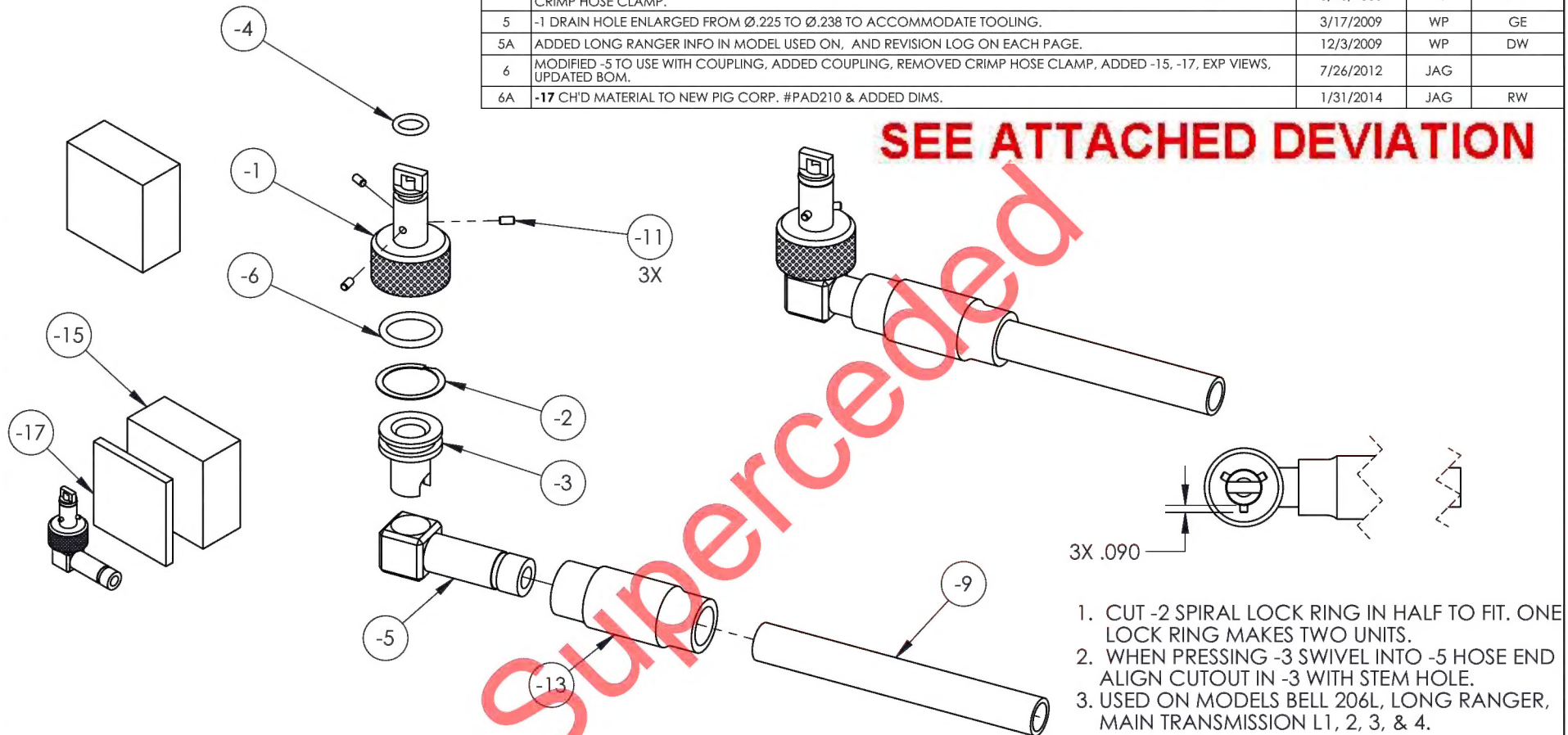


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REVISIONS

REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	O.D. ON STEPS OF -5 INCREASED FROM Ø.400 TO Ø.425 TO BETTER GRIP TUBING.	8/13/2004	-	-
2	REMOVED FROM -3 .285 DIM. (x .255) RE-ORGANIZED & RESIZED DIMS.	6/12/2007	WP	GE
3	REDUCED AND RE-ORGANIZED DIMS. MOVED PARTS TO ELIMATE ONE PAGE, MOVED ALL BOM'S TO FIRST PAGE, CHANGED -9 HOSE LENGTH FROM 24 in. TO 6 ft., AND ADDED CUT -2 SPIRAL LOCK RING IN HALF.	6/28/2007	WP	DW
4	DELETED -7 TWO HOSE RIBS FROM -5. ADDED INFO FOR CLARITY & INSTALLED NEW DRAWING FORMAT. ADDED -13 CRIMP HOSE CLAMP.	5/16/2008	WP	RW
5	-1 DRAIN HOLE ENLARGED FROM Ø.225 TO Ø.238 TO ACCOMMODATE TOOLING.	3/17/2009	WP	GE
5A	ADDED LONG RANGER INFO IN MODEL USED ON, AND REVISION LOG ON EACH PAGE.	12/3/2009	WP	DW
6	MODIFIED -5 TO USE WITH COUPLING, ADDED COUPLING, REMOVED CRIMP HOSE CLAMP, ADDED -15, -17, EXP VIEWS.	7/26/2012	JAG	
6A	-17 CH'D MATERIAL TO NEW PIG CORP. #PAD210 & ADDED DIMS.	1/31/2014	JAG	RW

SEE ATTACHED DEVIATION



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	1	QUILL	6061	Ø1 X 1-3/4	2
		B/O	-2	1	SPIRAL LOCK RING	STEEL	APPLIED SMALLEY #WA 84	1
			-3	1	SWIVEL	6061	Ø7/8 X 1	3
		B/O	-4	1	O-RING	VITON	2-011N70 OR MCMACSTER-CARR #9263K642	1
			-5	1	HOSE END	6061	5/8 X 5/8 X 2-1/8	4
		B/O	-6	1	O-RING	VITON	2-114 OR MCMACSTER-CARR #9464K27	1
		B/O	-9	1	HOSE	VINYL	Ø1/2 O.D. x Ø3/8 I.D. x 6ft KURI-TECH #K010-0608	1
		B/O	-11	3	DOWEL PIN	S.S.	Ø3/32 X 3/16 MCMACSTER-CARR #90145A443	1
		B/O	-13	1	COUPLING	NICKEL-PLATED BRASS	Ø1/2 MCMACSTER-CARR #51495K116	1
		B/O	-15	1	BOX	CLEAR POLYPROPYLENE	DE LUZ FLEX-A-TOP FT-33	1
		B/O	-17	1	FOAM	POLYESTER/POLYURETHANE	1 X 2.6 X 2.6 NEW PIG CORP. #PAD210	1



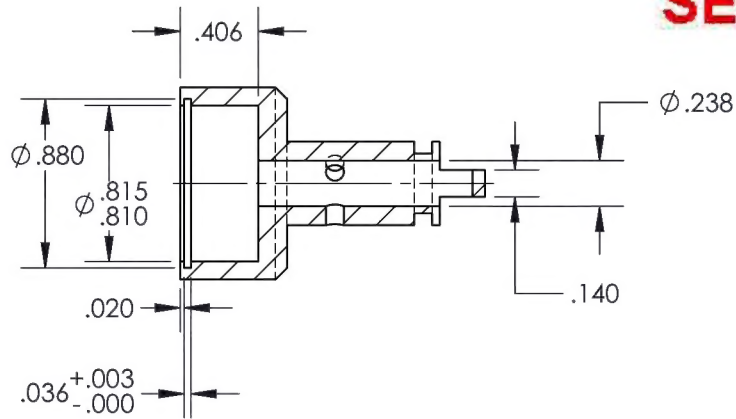
RED BARN MACHINE

TITLE		TRANSMISSION DRAIN TOOL	
DWG NO.		RB DB3188L	
REV		6A	
MATERIAL		DRAWN BY: D ROBERTS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005 FRACTIONS ± 1/32		HEAT TREAT	
.XX ± .01 ANGLES ± 5°		FINISH	
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		SEE NOTE	
SCALE	1:2	DATE	4/15/2002
		SHEET 1 OF 4	

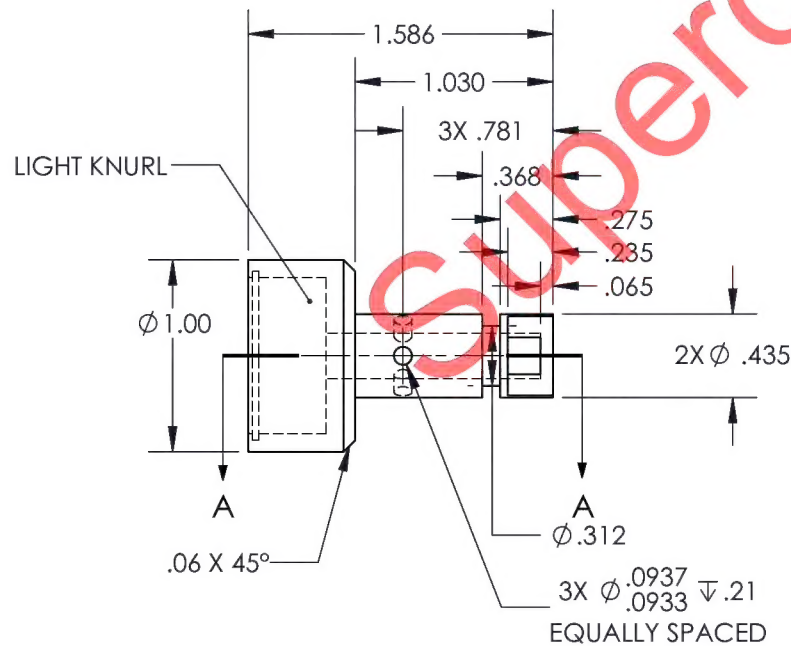
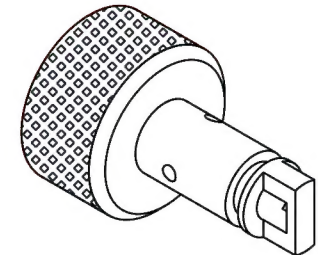
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
5	-1 DRAIN HOLE ENLARGED FROM Ø.225 TO Ø.238 TO ACCOMMODATE TOOLING.	3/17/2009	WP	GE

SEE ATTACHED DEVIATION



SECTION A-A



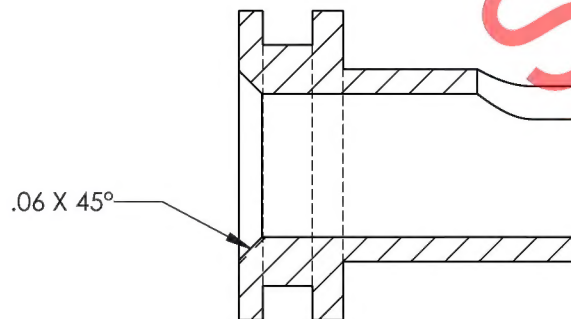
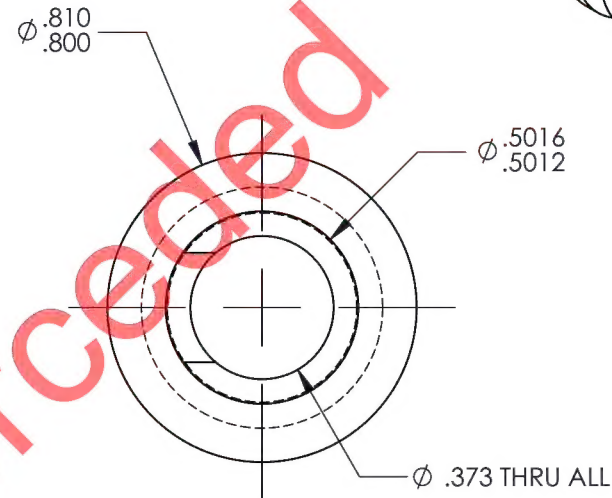
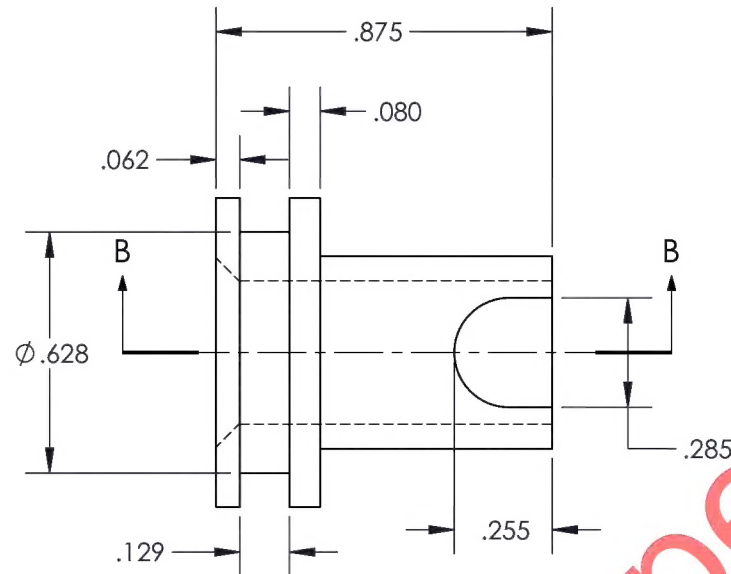
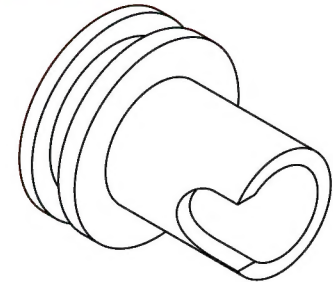
①
QUILL

RED BARN MACHINE	
TITLE TRANSMISSION DRAIN TOOL	
DWG NO. RB DB3188L-1	REV 6A
MAT'L 6061	DRAWN BY: D ROBERTS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH RED ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SEE SHT 1
SCALE 1:1	DATE 4/15/2002
SHEET 2 OF 4	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
2	REMOVED FROM -3 .285 DIM. (x .255) RE-ORGANIZED & RESIZED DIMS.	6/12/2007	WP	GE

SEE ATTACHED DEVIATION



SECTION B-B

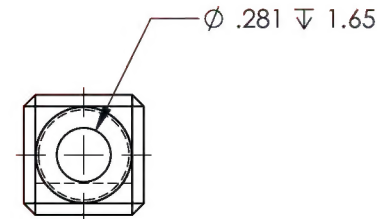
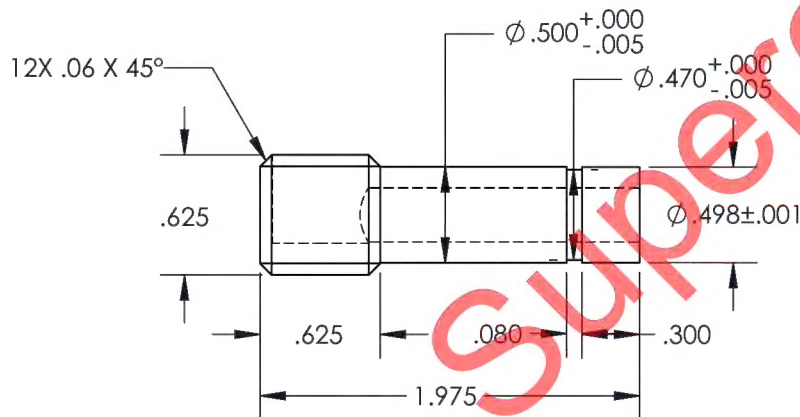
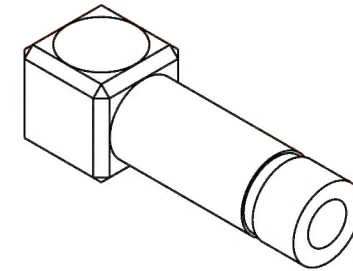
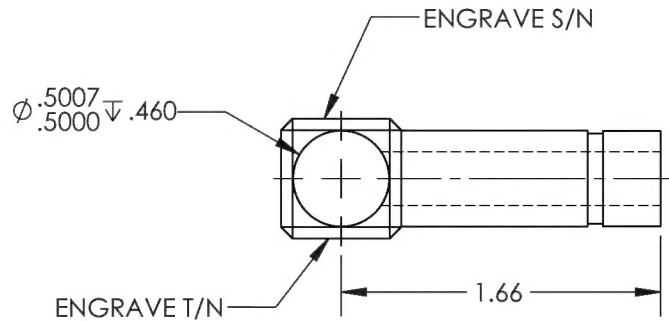
(-3)
SWIVEL

RED BARN MACHINE	
TITLE TRANSMISSION DRAIN TOOL	
DWG NO. RB DB3188L-3	REV 6A
MAT'L 6061	DRAWN BY: D ROBERTS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH RED ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SEE SHT 1
SCALE 2:1	DATE 4/15/2002
SHEET 3 OF 4	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	O.D. ON STEPS OF -5 INCREASED FROM Ø.400 TO Ø.425 TO BETTER GRIP TUBING.	8/13/2004	-	-
6	INCREASED LENGTH FROM 1.437 TO 1.975, REMOVED BARB, ADDED GROOVE.	7/26/2012	JAG	

SEE ATTACHED DEVIATION



(-5)
HOSE END

RED BARN MACHINE	
TITLE TRANSMISSION DRAIN TOOL	
DWG NO. RB DB3188L-5	REV 6A
MAT'L 6061	DRAWN BY: D ROBERTS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH RED ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS II
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SEE SHT 1
SCALE 1:1	DATE 4/15/2002
SHEET 4 OF 4	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. <u>RB DB3188L Rev. 6a</u>	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/>	DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Cross tube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> </div> <div> Eng. (Non-AW) <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Water Jet <input type="checkbox"/> Supplier <input type="checkbox"/> Quality <input type="checkbox"/> </div> </div>		
Date : _____	Sequence #: _____	QTY Affected : _____	MRB (QSI042) Oct 30, 2018	
Description Work Order Deviation		Disposition		Completed By
Kuri-Tech Hose (K010-0608) easily pulls out of Coupling (McMaster Carr 51495K116)		Install a 1.0" long, 0.38" OD, 0.25" ID piece of Stainless Steel into one end of the Kuri-Tech Hose until flush. Attach the modified end of the Kuri-Tech Hose to the Coupling before placing tool into packaging (if applicable). This deviation is acceptable. The fit, form and function of the part will be as originally intended.		Lead hand / Supervisor
				QC / QA Coordinator
Root Cause		FAULT CATEGORY		
<div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input checked="" type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div>		<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Bending <input type="checkbox"/> Crushing <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Mislabeled </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Incomplete/Unclear Instructions <input type="checkbox"/> Drill Holes <input type="checkbox"/> Fit/Function </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain Direction <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Off-set/Set-up </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Outside Tolerance <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Misread </div> </div>		
Other/Details:				